

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Monforte, Joseph A.  
Becker, Christopher H.  
Shaler, Thomas A.  
Pollart, Daniel J.
- (ii) TITLE OF INVENTION: OLIGONUCLEOTIDE SIZING USING CLEAVABLE  
PRIMERS
- (iii) NUMBER OF SEQUENCES: 19
- (iv) CORRESPONDENCE ADDRESS:  
(A) ADDRESSEE: Arnold, White & Durkee  
(B) STREET: P.O. Box 4433  
(C) CITY: Houston  
(D) STATE: TX  
(E) COUNTRY: USA  
(F) ZIP: 77210-4433
- (v) COMPUTER READABLE FORM:  
(A) MEDIUM TYPE: Floppy disk  
(B) COMPUTER: IBM PC compatible  
(C) OPERATING SYSTEM: PC-DOS/MS-DOS  
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:  
(A) APPLICATION NUMBER: US Unknown  
(B) FILING DATE: Concurrently Herewith  
(C) CLASSIFICATION: Unknown
- (vii) PRIOR APPLICATION DATA:  
(A) APPLICATION NUMBER: US 08/639,363  
(B) FILING DATE: 26-APR-1996
- (vii) PRIOR APPLICATION DATA:  
(A) APPLICATION NUMBER: US 08/445,751  
(B) FILING DATE: 22-MAY-1995
- (viii) ATTORNEY/AGENT INFORMATION:  
(A) NAME: Sertich, Gary J.  
(B) REGISTRATION NUMBER: 34,430  
(C) REFERENCE/DOCKET NUMBER: GETR:031
- (ix) TELECOMMUNICATION INFORMATION:  
(A) TELEPHONE: (512)418-3000  
(B) TELEFAX: (512)474-7577

005230: 98E6E760

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 16 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (ix) FEATURE:
  - (A) NAME/KEY: misc\_feature
  - (B) LOCATION: 9..10
  - (D) OTHER INFORMATION: /note= "sequence contains phosphoramidate bond between nucleotides 9 and 10"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

TTCATGCAAT CCGATG

16

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (ix) FEATURE:
  - (A) NAME/KEY: misc\_feature
  - (B) LOCATION: 16..17
  - (D) OTHER INFORMATION: /note= "primer containing a first region with an immobilization attachment site, a cleavable site "x" between nucleotides 16 and 17"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

ACTCCTGTGG AGAACTCTGC

20

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 20 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GCAGAGTTCT CCACAGGAGT

20

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 16 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

ACTCCTGTGG AGAACT

16

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 19 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

ACCATCGACG AGAAAGGGA

19

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 7 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Thr Ile Asp Glu Lys Gly Thr  
1 5

663630"SECRETED

(2) INFORMATION FOR SEQ ID NO:7:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

ACCATCGACA AGAAAGGGA

19

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 7 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS:
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Thr Ile Asp Lys Lys Gly Thr  
1 5

(2) INFORMATION FOR SEQ ID NO:9:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ix) FEATURE:

- (A) NAME/KEY: misc\_feature
- (B) LOCATION: 7..15
- (D) OTHER INFORMATION: /note= "N = G, A, C or T"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

ACGACANCCA TGCANACC

19

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 17 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (ix) FEATURE:
  - (A) NAME/KEY: misc\_feature
  - (B) LOCATION: 9..10
  - (D) OTHER INFORMATION: /note= "probe contains a cleavable ribose at position 10 from 5' end (position 7 from 3' end)"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

AAATACATCG CTTGAAC

17

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 18 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (ix) FEATURE:
  - (A) NAME/KEY: misc\_feature
  - (B) LOCATION: 9..10
  - (D) OTHER INFORMATION: /note= "18-mer is biotinylated at 5' end and contains a ribose at position 10 from 5' end"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

ATCTTCCTGG CAAACTCA

18

(2) INFORMATION FOR SEQ ID NO:12:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 22 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)

00439386-03299

(ix) FEATURE:  
    (A) NAME/KEY: misc\_feature  
    (B) LOCATION: 17..18  
    (D) OTHER INFORMATION: /note= "reverse primer contains a  
5'-(S)thymidine at position 18"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

CACACAGGAA ACAGCTATGA CC

22

(2) INFORMATION FOR SEQ ID NO:13:

(i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 17 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:  
    (A) NAME/KEY: misc\_feature  
    (B) LOCATION: 16..17  
    (D) OTHER INFORMATION: /note= "intermediary  
oligonucleotide is biotinylated at 3' end"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

TAGCTGTTTC CTGTGTG

17

(2) INFORMATION FOR SEQ ID NO:14:

(i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 73 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:  
    (A) NAME/KEY: misc\_feature  
    (B) LOCATION: 51..68  
    (D) OTHER INFORMATION: /note= "priming region corresponds  
to nucleotides 51-68; C and G of interest at positions 35 and  
32, respectively"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

CAGCTTTTGT TCCCTTTAGT GAGGGTTAAT TGC GCGCTTG GCGTAATCAT GGTCATAGCT

60

GTTTCCTGTG TGA

73

00500-9866T60

(2) INFORMATION FOR SEQ ID NO:15:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 73 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: misc\_feature
- (B) LOCATION: 51..68
- (D) OTHER INFORMATION: /note= "priming region corresponds to nucleotides 51-68; mutations at positions 35 (A) and 32 (T)"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

CAGCTTTTGT TCCCTTTAGT GAGGGTTAAT TTCGAGCTTG GCGTAATCAT GGTCATAGCT	60
GTTTCCTGTG TGA	73

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 18 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: misc\_feature
- (B) LOCATION: 13..14
- (D) OTHER INFORMATION: /note= "primer is biotinylated at 5' end and contains a 5' (S)- thymidine at position 14"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

CAGGAAACAG CTATGACC	18
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(2) INFORMATION FOR SEQ ID NO:17:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 45 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

ATGATTACGC CAAGCGCGCA ATTAACCCTC ACTAAAGGGA ACAAA

45

(2) INFORMATION FOR SEQ ID NO:18:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 45 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

ATGATTACGC CAAGCTCGAA ATTAACCCTC ACTAAAGGGA ACAAA

45

(2) INFORMATION FOR SEQ ID NO:19:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 19 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: misc\_feature
- (B) LOCATION: 7..8
- (D) OTHER INFORMATION: /note= "the primer contains a 1:1 mixture of dT and dG incorp. at positions 7 and 15"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

ACGACATCCA TGCATCACC

19

BBSD-336T60